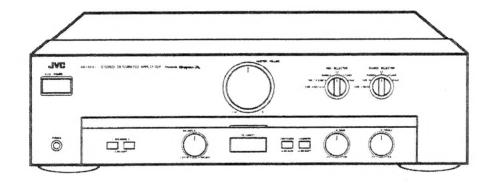


JVG

SERVICE MANUAL

STEREO INTEGRATED AMPLIFIER

AX-A441TN MODEL No. AX-A442BK



Contents

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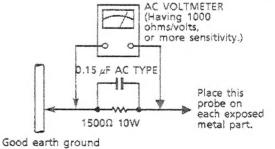
- Safety Precautions -

- 1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (\triangle) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage currnet check (Electrical shock hazard testing)
 After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
 - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularily any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
 - Alternate check method Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Do not use a line isolation transformer during this check.

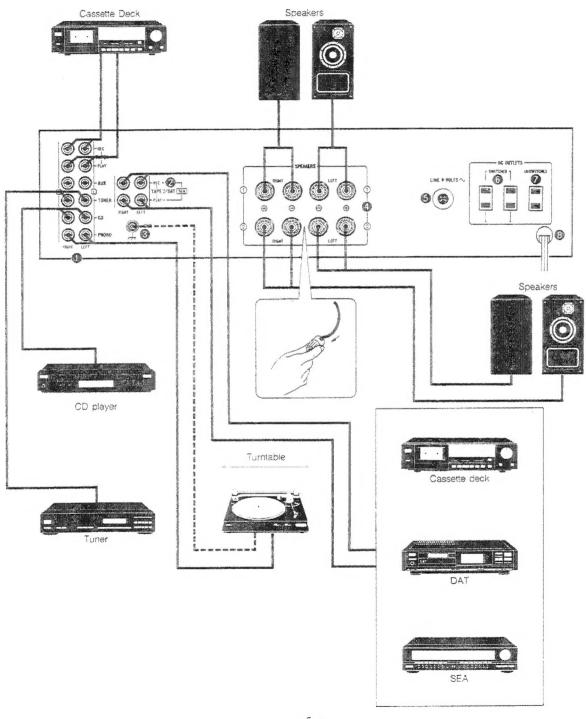
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



- Warning -

- 1. This equipment has been designed and manufactured to meet international safety standards.
- It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

CONNECTION DIAGRAM



REAR PANEL

- TAPE 1, AUX, TUNER, CD and PHONO terminals
- TAPE 2/DAT terminals
- GND terminal

If your turntable has a ground lead, connect it to the GND terminal.

- SPEAKERS 1, 2 terminals
- AC line voltage selector** (LINE ↓ VOLTS ~)

Set the voltage selector so that the arrow points to the appropriate voltage.

- SWITCHED AC OUTLETS**
- UNSWITCHED AC OUTLETS**
- * Not provided on units for Continental Europe, the United Kingdom and Australia.
- Power cord

Notes:

- 1. Disconnect the power cord when connecting any component.
- When connecting components, make the correct left and right channel connections. Reversed channels may degrade the stereo effect.
- Connect speakers with correct polarity: (+) to (+) and (-) to (-). Reversed polarity will degrade the stereo effect.
- 4. Connect plugs or wires firmly. Poor contact may result in hum.
- Do not connect equipment requiring more than the rated power to the AC outlets on the rear panel.
- Use speakers with the correct impedance. The correct impedance is indicated on the rear panel of the AX-A341TN/AX-A342BK, AX-A441TN/AX-A442BK.
- The SWITCHED AC OUTLETS are switched off when the frontpanel POWER button is switched off.
- The UNSWITCHED AC OUTLET is not switched off when the front-panel POWER button is switched off.
- An MC or MM cartridge can be used for the turntable connected to the AX-A441TN/AX-A442BK.
- 10. Do not connect video signals to the terminal of this unit.

BEFORE USE

1. Installation

- Select a place which is level, dry and neither too hot nor too cold (between - 5°C and 40°C/23°F and 104°F).
- Leave space between the rear of the amplifier and the wall. Good ventilation is needed, especially when the amplifier is driven at high output power. Also, leave space above the top of the amplifier for the same reason when stacking components.
- Do not allow a carpet, etc., to block the ventilation holes.
- Do not set it in a place subject to vibrations.

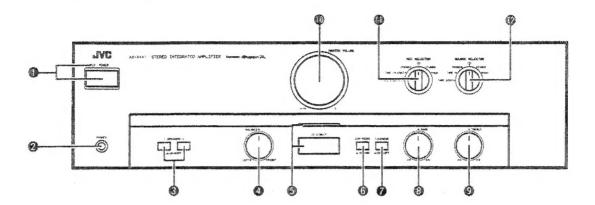
2. Power cord

- Check that the amplifier is set for your local supply voltage and frequency. If not consult the dealer from whom your bought it.
- When unplugging from the wall outlet, always pull the plug, not the power cord.
- Before plugging the power cord into an AC outlet, check to be sure the individual component are connected correctly.

3. Malfunctions, etc.

- There are no user servicable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- · Do not insert any metallic object inside the amplifier.
- · Do not allow water to get inside the amplifier.
- · Set the volume at minimum, before operation.

FRONT PANEL



POWER and indicator

Press this button to turn the power on.
To turn the power off, press it again.
The indicator lights when the POWER button is pressed to on.

PHONES (Headphones jack)

Plug stereo headphones into this jack for private listening. If you want to listen to sound from the headphone only, press the SPEAKERS button to "OFF".

SPEAKERS (_ ON I OFF)

Press to switch the speakers connected to the SPEAKERS 1 or 2 terminals on (_) and off (_).

BALANCE

Balances the volume between the left and right speakers. Usually set it to the center click position.

CD DIRECT and indicator

Press this button to enjoy listening to the CD with good sound quality. The indicator lights and the signal fed from the CD terminals is directly connected to the volume, bypassing the circuits on the way, thus allowing you to enjoy listening to an improved sound quality.

Please note:

- When CD DIRECT is on the amplifier gives priority to the CD player so that the CD sound is emitted from the speakers or headphones regardless of the source selected by the source selector.
- While the CD DIRECT button is pressed, spinning of the BALANCE knob does not change the reproduced sound.

@ CARTRIDGE (AX-A441TN/AX-A442BK only)

MC (_): Press in when using an MC cartridge having an output of less than 0.5 mV.

MM (**a**): Press again when using an MM or MC cartridge having an output of more than 0.5 mV.

LOUDNESS (■ ON ■ OFF)

Press this switch ON (__) to compensate for the ear's different sensitivity to sound at low volumes.

@ BASS

Turn clockwise to boost bass response and counterclockwise to decrease it.

@ TREBLE

Turn clockwise to boost treble response and counterclockwise to decrease it.

MASTER VOLUME

Controls the valume of the speakers and headphones.

REC SELECTOR

TAPE 2/DAT ► 1: Set to this position to dub from TAPE 2 to TAPE 1 or to record DAT onto TAPE 1.

TAPE 1 ▶ 2/DAT: Set to this position to dub from TAPE 1 to TAPE 2 or to record TAPE 1 onto DAT.

PHONO: Set to this position to record PHONO.

CD: Set to this position to record CD.

TUNER: Set to this position to record TUNER.

AUX: Set to this position to record the source connected to the AUX terminals.

SOURCE SELECTOR

TAPE 2/DAT: Set to this position to listen to TAPE 2/DAT.

TAPE 1: Set to this position to listen to TAPE 1.

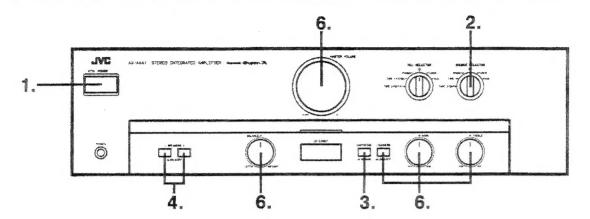
PHONO: Set to this position to listen to PHONO.

CD: Set to this position to listen to CD.

TUNER: Set to this position to listen to TUNER.

AUX: Set to this position to listen to the source connected to the AUX terminals.

Listening to Sources



1. Turn the POWER on and the indicator will light up.



2. Adjust the SOURCE SELECTOR to select the source.



3. Set the CARTRIDGE as required. (for PHONO only)

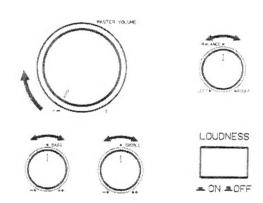


Note:

- Unless listening to PHONO, above operation is not necessary.
- 4. Select the speaker system with the SPEAKERS buttons.



- Operate the corresponding equipment according to its instruction manual.
- **6.** Adjust the MASTER VOLUME, BALANCE, TREBLE, BASS and LOUDNESS.



7. Use of S.E.A. Graphic Equalizer

By allowing you to independently boost or lower the response of finely divided sections of the frequency spectrum: the S.E.A. gives you much greater control over the sound quality of your stereo system. With an optionally available S.E.A. Graphic Equalizer, you can tailor the sound to your own taste for different types of music or to compensate for the particular accustic characteristics of your audio components and listening room. The TAPE 2/terminals of the AX-A341TN/AX-A342BK or AX-A441TN/AX-A442BK can be used for connecting the S.E.A. Graphic Equalizer.

Note:

 To tailor the sound using SEA, select desired source by the REC SELECTOR and adjust the SOURCE SELECTOR position to TAPE 2/DAT connected to SEA.

TROUBLESHOOTING

What appears to be a malfunction may not always be serious. Make sure first

No sound and no light

is the AC plug connected properly? Are the connections made correctly? Are the inter-component connections correct? No sound from speakers

Are speaker cords connected? Are the SPEAKERS buttons correctly set? is the VOLUME control properly set?

is your source component correctly set?

Sound from one speaker only

Are speaker cords connected correctly? Is BALANCE control set to one extreme or the other?

Loud hum during record playing

Is turntable grounded?

Try to change cord path.

Insert the plugs by interchanging their positions.

Howling noise during record playing

is turntable too close to a speaker?

SPECIFICATIONS

AX-A341TN/AX-A342BK OVERALL CHARACTERISTICS

Output power:

85 watts per channel into 4 ohms at 1 kHz (DIN).

65 watts per channel into 8 ohms at 1 kHz (DIN)

55 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0:007% total harmonic distortion.

55 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.003% total harmonic distortion. (measured by JVC Audio Analyzer System)

Total harmonic distortion : 0.007% (20 Hz - 20 kHz, 8 ohms) at

55 watts

Intermodulation distortion : 0.007% (60 Hz : 7 kHz = 4 : 1,

8 ohms) at 55 watts 5 Hz — 50 kHz (IHF, 0.05%, 8 ohms Power band width

both channels driven)

5 Hz - 100 kHz +0. -3 dB (8 ohms) Frequency response Damping factor : 100 (1 kHz, 8 ohms)

Input terminals

Input sensitivity/impedance (1 kHz)

PHONO 2.5 mV/47 kohms CD/AUX/TUNER/TAPE 1, 2 : 200 mV/27 kohms

Signal-to-noise ratio PHONO

: 73 dB ('66 IHF) CD/AUX/TUNER/TAPE 1, 2 : 110 dB ('66 IHF) PHONO : 69 dB (DIN) CD/AUX/TUNER/TAPE 1, 2 : 74 dB (DIN)

TREBLE: ±8 ±1 dB (at 10 kHz) BASS: ±8 ±1 dB (at 100 Hz) Tone controls

Loudness controls : +6 dB (at 100 Hz), +4 dB (at 10 kHz) (Volume control at

- 30 dB position)

EQUALIZER

PHONO overload capacity

(PHONO to TAPE 2 REC) : 100 mV (0.02% THD) PHONO RIAA deviation : ±0.3 dB (20 Hz - 20 kHz)

Recording output Output level/impedance TAPE 1, 2, REC

: 200 mV/800 ohms

GENERAL

: 435 (W) x 127 (H) x 306 (D) mm (17-3/16" x 5" x 12-1/16") **Dimensions**

: 7.2 kg (15.9 lbs.)

Design and specifications subject to change without notice.

AX-A441TN/AX-A442BK OVERALL CHARACTERISTICS

Output power

110 watts per channel into 4 ohms at 1 kHz (DIN).

75 watts per channel into 8 ohms at 1 kHz (DIN).

65 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007% total harmonic distortion.

65 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.003% total harmonic distortion. (measured by JVC Audio Analyzer System)

Total harmonic distortion : 0.007% (20 Hz -- 20 kHz, 8 ohms) at

65 watts 0.007% (60 Hz : 7 kHz = 4 : 1. Intermodulation distortion

8 chms) at 65 watts 5 Hz — 50 kHz (IHF, 0,05%, 8 chms

Power band width both channels driven)

: 5 Hz - 100 kHz +0, -3 dB (8 ohms)

Frequency response Damping factor

: 100 (1 kHz, 8 chms)

Input terminals

input sensitivity/impedance (1 kHz) PHONO (MM)

2.5 mV/47 kohms PHONO (MC) : CD/AUX/TUNER/TAPE 1, 2 : 200 µV/100 ohms 200 mV/27 kohms Signal-to-noise ratio

85 dB ('66 IHF) 67 dB ('66 IHF) PHONO (MM) PHONO (MC) CD/AUX/TUNER/TAPE 1, 2 : 110 dB ('66 iHF) PHONO (MM) 69 dB (DIN) CD/AUX/TUNER/TAPE 1, 2 : 74 dB (DIN)

TREBLE: ±8 ±1 dB (at 10 kHz) BASS: ±8 ±1 dB (at 100 Hz) Tone controls

Loudness controls : +6 dB (at 100 Hz) +4 dB (at 10 kHz)

(Volume control at -30 dB position)

FOLIAL IZER

PHONO overload capacity (PHONO to TAPE 2 REC) PHONO (MM) 100 mV (0.02% THO) PHONO (MC) 8 mV (0.04% THD)

PHONO RIAA deviation PHONO (MM) PHONO (MC) : ± 0.3 dB (20 Hz - 20 kHz) : ± 0.5 dB (20 Hz - 20 kHz)

Recording output

Output level/impedance TAPE 1, 2, REC : 200 mV/800 ohms

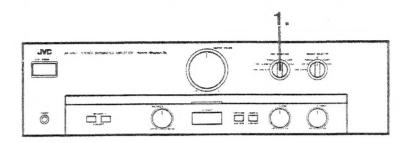
GENERAL

: 435 (W) x 127 (H) x 306 (D) mm (17-3/16" x 5" x 12-1/16") **Dimensions**

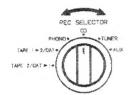
: 7.5 kg (16.6 lbs.) Weight

Design and specifications subject to change without notice.

Recording Tapes



1. Set the REC SELECTOR as desired.



- 2. Play the source according to its instruction manual.
- 3. Operate the tape deck for recording.

Notes:

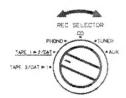
- To listen to another source while recording, select desired source by the SOURCE SELECTOR.
- If your tape deck is 3-head type, you can monitor the sound being recorded. In this case, adjust the SOURCE SELECTOR position to TAPE 1 or TAPE 2/DAT onnected to tape deck.

Tape Dubbing

Dubbing between TAPE 1 and TAPE 2 is carried out as follows:

- To record from TAPE 1 to TAPE 2 -

1. Set the REC SELECTOR to TAPE 1 ▶ 2/DAT.

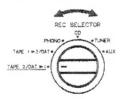


Play back the deck TAPE 1 and operate the deck TAPE 2 for recording.

Note:

 To monitor the recorded sound, connect 3 head-deck to TAPE 2/DAT terminal and set the source selector to TAPE 2. — To record from TAPE 2 to TAPE 1 —

1. Set the REC SELECTOR to TAPE 2/DAT ▶ 1.



Play back the deck TAPE 2 and operate the deck TAPE 1 for recording.

Note:

 To monitor the recorded sound, connect 3 head-desk to TAPE 1 terminal and set the source selector to TAPE 1.

Disassembly Procedures

(1) Removing the Top Cover

- Remove the 4 screws fastening both sides of the Top Cover, and the 2 screws fastening the rear sides.
- 2. Remove the Top Cover.

(2) Removing the Bottom Cover

- 1. Remove the 18 screws (Fig 2)
- 2. Remove the Bottom Cover.

(3) Removing the Front Panel

- 1. Remove the top cover.
- 2. Remove the 3 screws® and 3 plastic rivets®. (Fig 1,2)
- Pull out the main volume knob.

(4) Removing the Power Transistor

- 1. Remove the top cover and the bottom plate.
- 2. Unsolder the defective power transistor.
- 3. Remove the screw holding the power transistor using a pair of pliers, a wrench or a bent screwdriver

(5) Removing / Installing the flexible wire of remote switch

- Set the SOURCE SELECTOR knob (REC SELECTOR knob) to AUX position when removing.
- Insert the tip of the driver into the openings in the switch.(Fig 3)
- Move the driver down so that the claws of the switch open.
- After opening both claws, lift the mold portion.
 Note: Be most careful when handling the flexible wire.
 Do not bend it sharply or twist it.
- 5. Set the SOURCE SELECTOR knob (REC SELECTOR knob) to AUX position of switch to ① (or ©) direction, then install the mold portion.

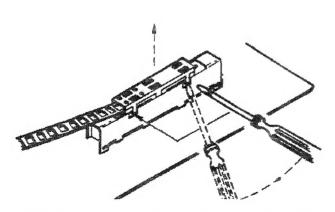
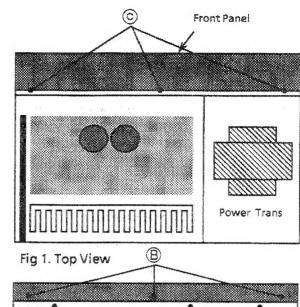
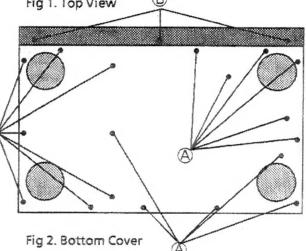


Fig 3. Removing the flexible wire of remote switch.





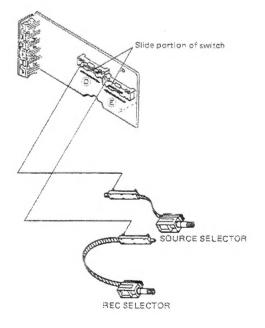


Fig 4. Installing the flexible wire of remote switch.

POWER SPECIFICATIONS

		Power Conumption		
Area	Line Voltage & Frequency	AX-A341TN/AX-A342BK	AX-R441TN/AX-A442BK	
U.K.	AC 240 V ∼ . 50 Hz	250 waits	610 watts	
Australia	→ AC 240 V ~ C, 50 HZ	250 walls	o iu walls	
Continental Europe	AC 230 V ∼, 50 Hz	240 watts	250 watts	
Other areas AC 110 / 127 / 220 / 240 V \sim selectable, 50/60 Hz		230 watts	270 watts	

SPANNUNGSVERSORGUNG UND LEISTUNGSAUFNAHME

1 2 4	Mahanan and Carra	Leistungs	aufnahme
Länder	Netzspannung und Frequenz	AX-A341TN/AX-A342BK AX-A441TN/AX-A44	
Großbritannien	240 V ∼ , 50 Hz	250 Watt	610 Watt
Australie	240 V 10, 30 Hz	250 Wall	O TO YEAR
Kontinental-Europa	230 V ∼, 50 Hz	240 Watt	250 Watt
Andere Länder	umschaltbar 110 / 127 / 220 / 240 V \sim 50/60 Hz	230 Watt	270 Watt

CARACTERISTIQUES TECHNIQUES D'ALIMENTATION

5	Tension d'alimentation et fréquence	Consommation		
Pays	rension d'annentation et frequence	AX-A341TN/AX-A342BK AX-A441TN/AX-A44		
Royaume-Uni	CA 240 V	250 watts	610 watts	
Australie	CA 240 V 10, 30 N2	250 Watts	0:0 waits	
Europe Continentale	CA 230 V ∕√, 50 Hz	240 watts	250 watts	
Autres Pays	CA 110 / 127 / 220 / 240 V ∼ , commutable, 50/60 Hz	230 watts	270 watts	

SPANNINGSVEREISTEN

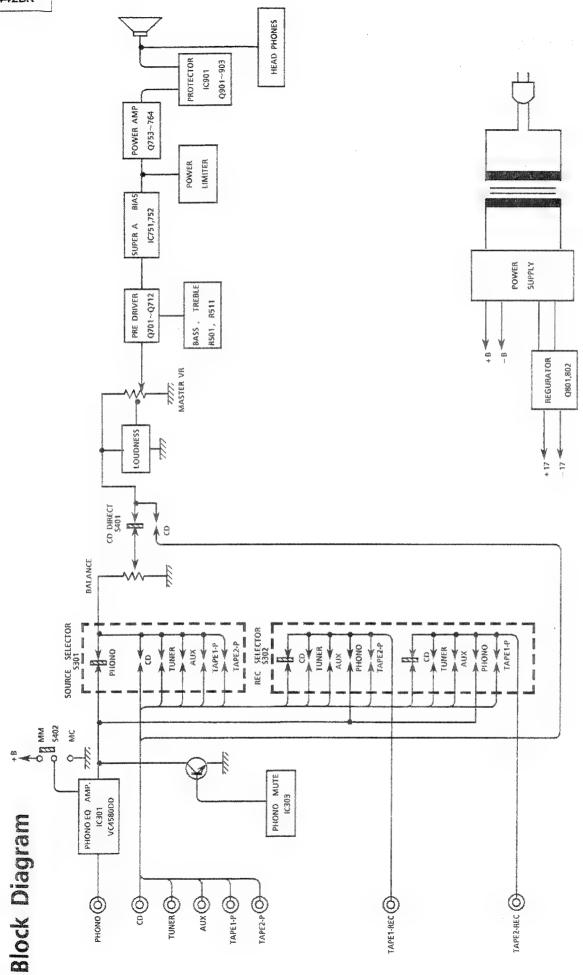
C-4:	bi-to-manufacture of designments	Stroom	Stroomverbruik		
Gebieden	Netspanning en frekwentie	AX-A341TN/AX-A342BK	AX-441TN/AX-A442BK		
Engeland	Net 240 V	250 Wart	610 Watt		
Australië	7 Net 240 V 10 30 ft2	250 Wan	O IO Watt		
Europese vasteland	Net 230 V	240 Watt	250 Watt		
Andere gebieden	Net 110 / 127 / 220 / 240 V \sim instelbaar, 50/60 Hz	230 Watt	270 Watt		

ESPECIFICACIONES DE ALIMENTACION

Países	Voltaje y frecuencia	Cons	Consumo	
raises	vonaje y necucnicia	AX-A341TN/AX-A342BK		
Reino Unido	AC 240 V ∕√. 50 Hz	250 varios	610 vatios	
Australia	AC 240 V 10, 50 BZ	250 Valios	bio vauos	
Europa Continental	AC 230 V ∼. 50 Hz	240 vatios	250 vatios	
Otras países	AC 110 / 127 / 220 / 240 V \to seleccionable, 50/60 Hz	230 vatios	270 vatios	

STRÖMFÖRSÖRJNING

0 11	Militarianian & fraincean	Effektförbrukning		
Områden	Nětspänning & frekvens	AX-A341TN/AX-A342BK	AX-A441TN/AX-A442BK	
Storbritannien	~240 V. 50 Hz	250 Watt	610 Watt	
Australien	~240 V, 30 MZ	250 wan	o io wan	
Kontinentaleuropa	∼230 V, 50 Hz	240 Watt	250 Watt	
Övriga länder	∼110 / 127 / 220 / 240 V (omkopplingsbart), 50/60 Hz	230 Watt	270 Watt	

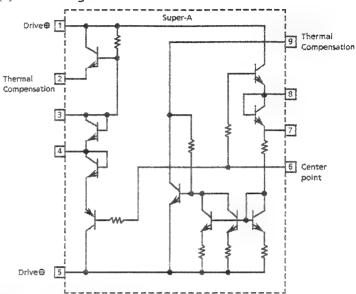


Internal Block Diagrams of ICs

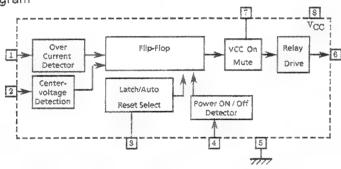
- VC5022 (IC751,752): SUPER- A
 - (1) Terminal Layout



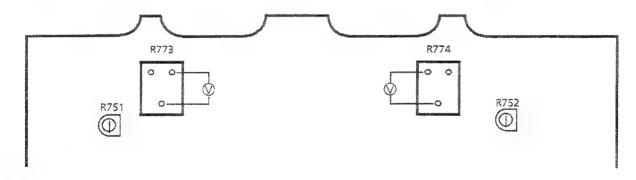
(2) Block Diagram



- μPC1237HA(IC303,901): Protector, Relay Driver
 - (1) Block Diagram



Power Amplifier Adjustment Procedures

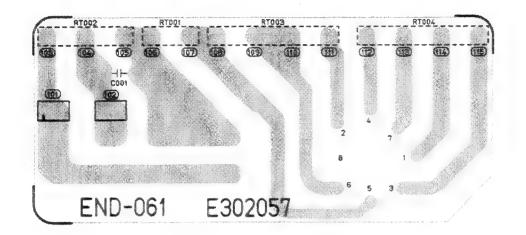


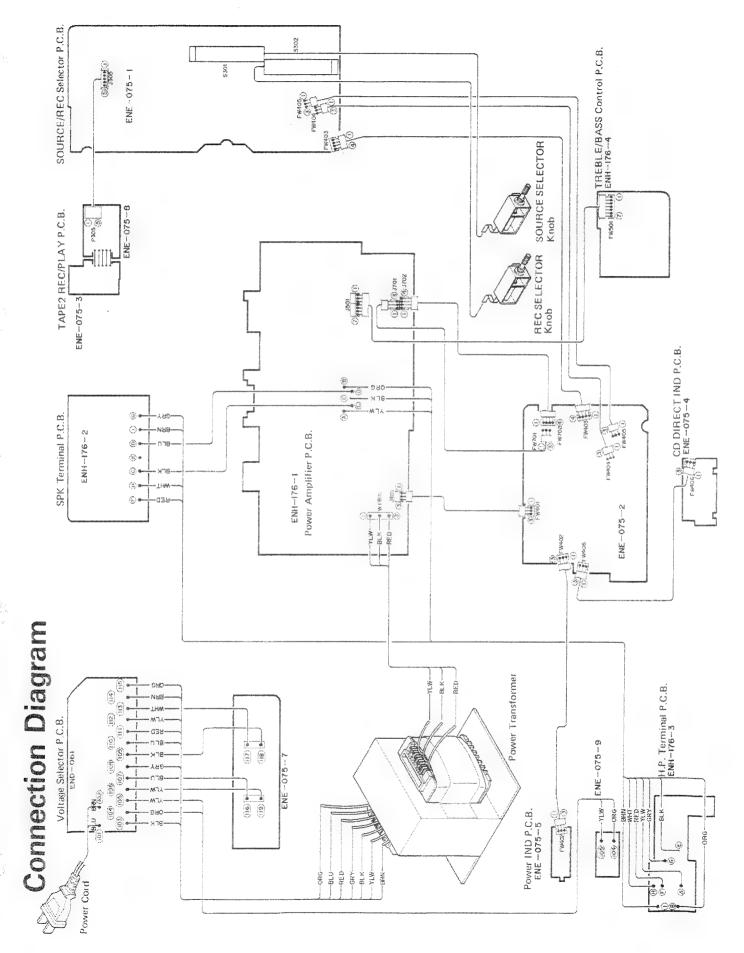
Idling Current

- (1) Set the volume control to minimum during this adjustment.
- (2) Turn R751 and R752 fully counterclockwise before the power switch on.
- (3) Always start from cold, and allow 10 minutes to warm up before adjustment. If the heatsink is already warm from previous use the correct adjustment can not be made.
- (5) Connect a DC voltmeter to R773 resistor's leads for left channel, or to R774 for right channel.
- (6) Adjust R751 for left channel, or 752 for right channel, so that the DC voltmeter becomes 7mV ~ 15mV

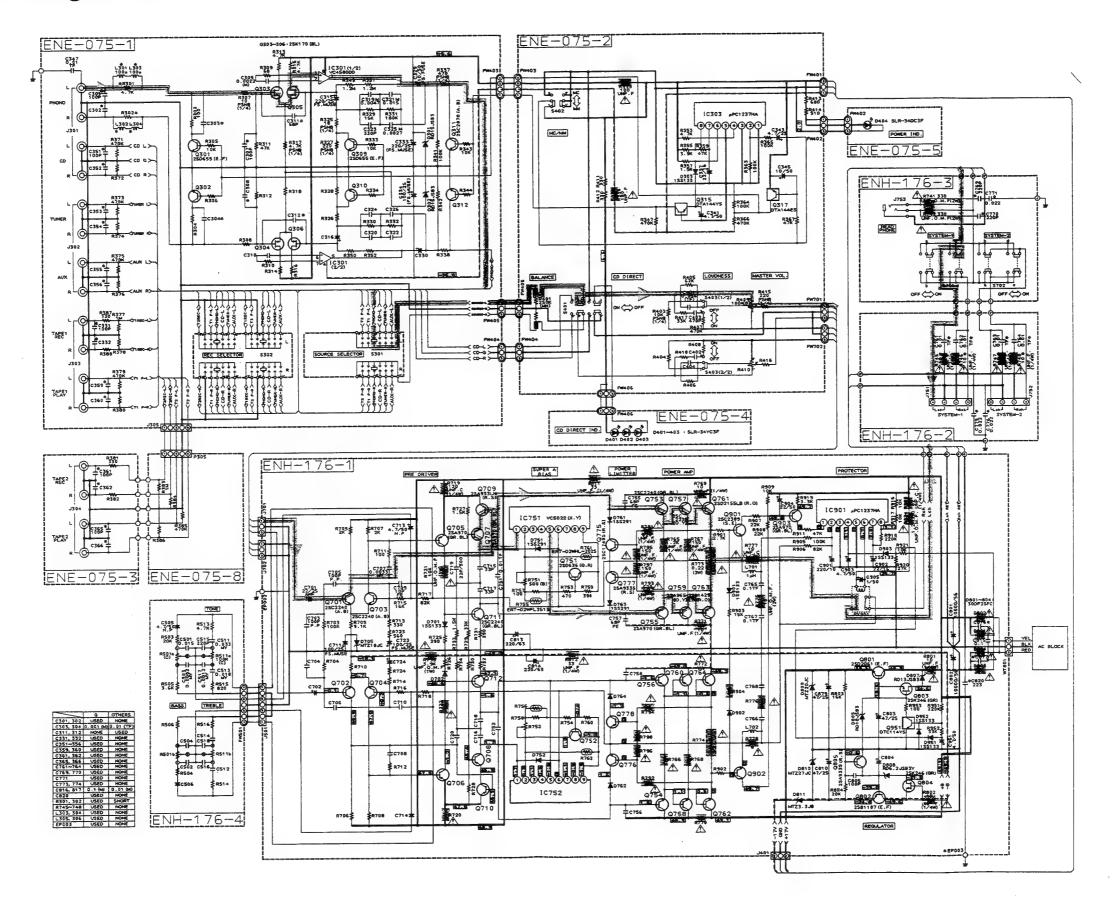
Printed Circuit Boards

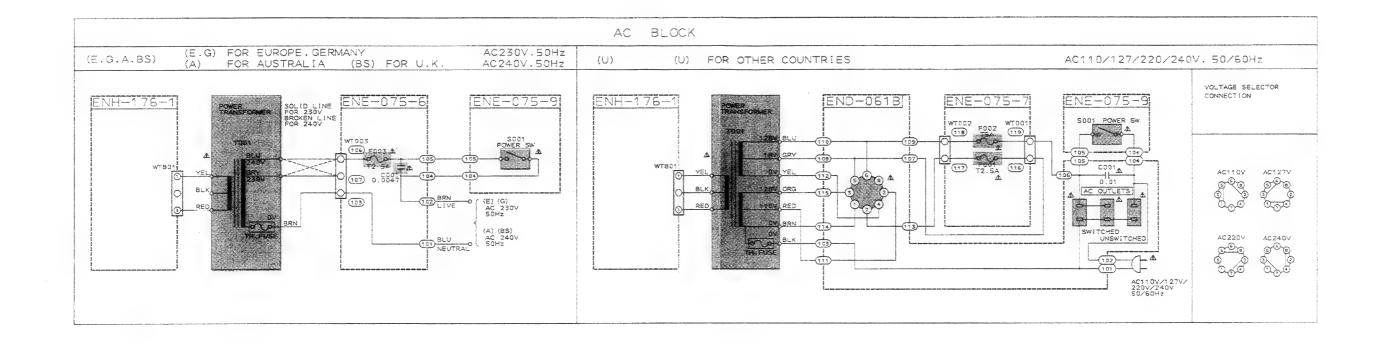
■ Voltage Selector P.C.B (END-061)





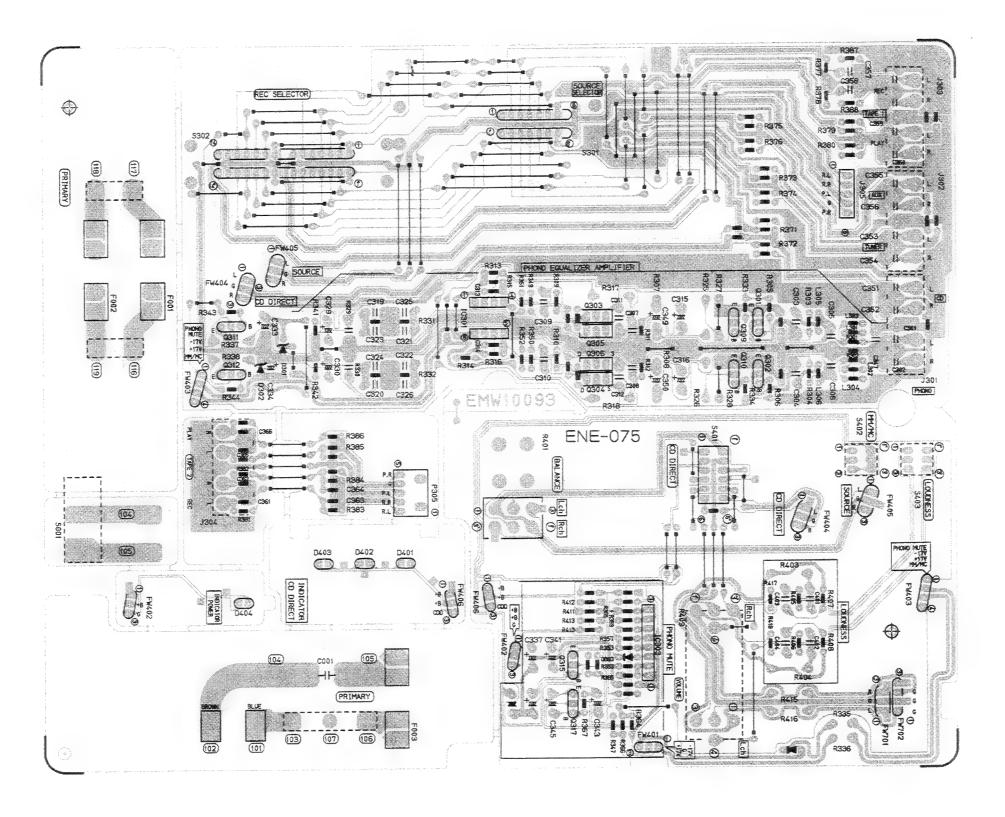
Schematic Diagrams



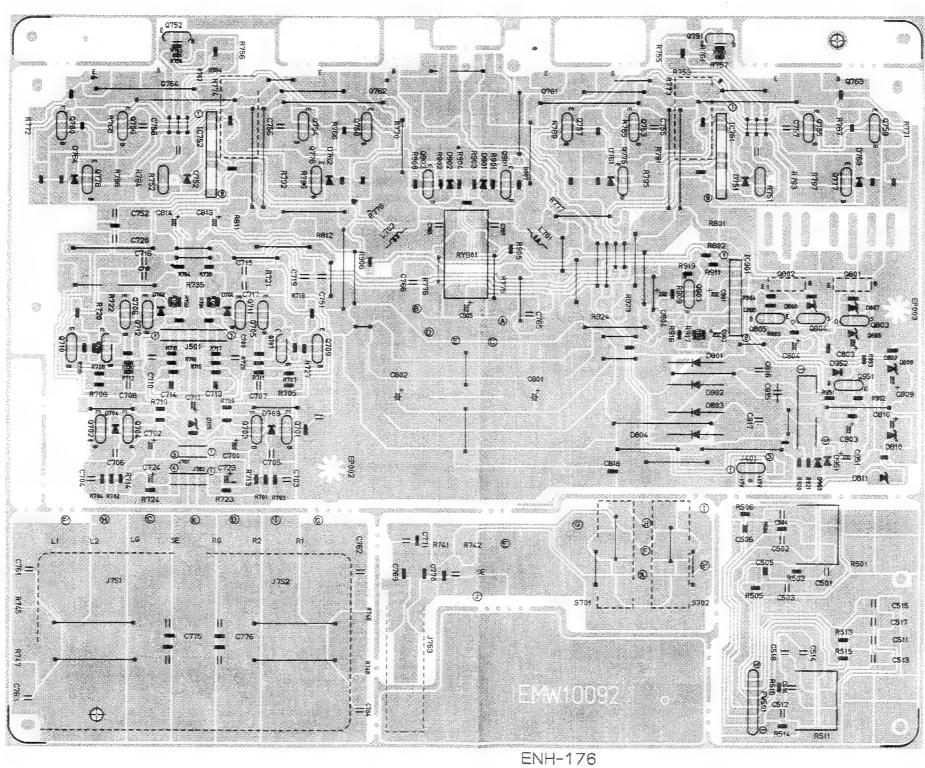


- 1. indicates +8 power supply.
- 2. --- indicates -B power supply.
- 3. indicates signal path.
- 4. shows voltage.
- 5. When replacing the parts in the darkened area ()) and those marked with riangle , be sure to use the designated
 - This is the standard circuit diagram.
- 6. The design and contents are subject to change without notice.

■ Source Selector & Power Primary P.C.B (ENE-075)



Power Amp P.C.B (ENH-176)

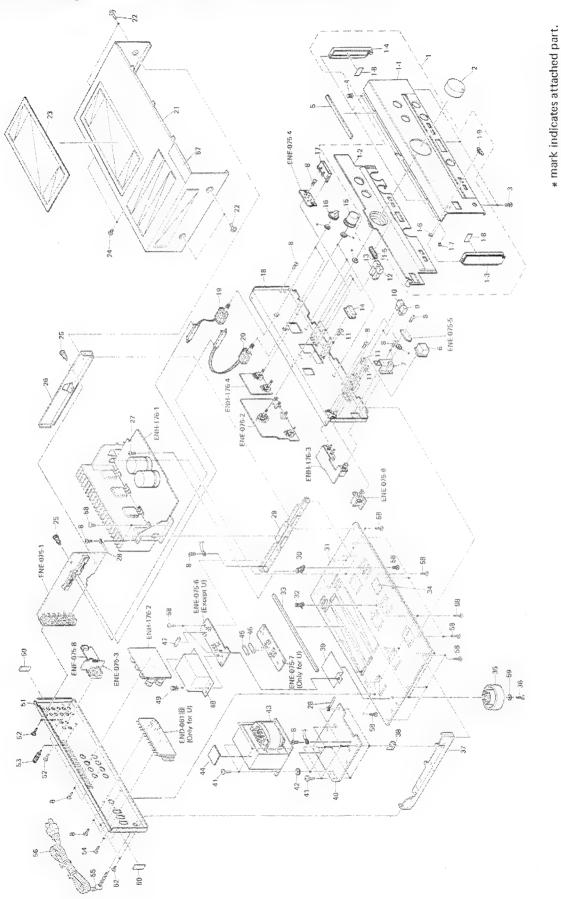


PARTS LIST

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General Exploded View and Parts List



■AX-A441TN Parts List

Δ	Item	Part Number	Part Name	Q'ty	Description	Areas
	1 1-1 1-2 1-3 1-4	EFP-AXA441TNE E207078-001 E102418-001 E307424-001 E307424-002	Front Panel Ass'y Front Panel Front Base Side Fitting Side Fitting	1 1 1 1	Left Right	
	1-5 1-6 1-7 1-8 1-9	E406486-001 E60912-003 E75934-002 EXO020010R15S13 E72968-001	Indicator Speed Nut Indicator Spacer JVC Mark	1 1 1 2 1	CD Direct Stand BY.	
	2 3 4 5 6	E307425-001 SBSG3006M E48729-009 EXO170005N35S02 E406481-001	Volume Knob Screw Plastic Rivet Felt Spacer Power Button	1 3 3 2 1		
	7 8 9 10	E75183-001 SBSG3008CC SBSG3008CC E406482-002 E406482-001	Head Phone Bracket Screw Screw Push Button Push Button	1 12 14 1		Except G , U G , U
	11 12 13 14 15	SBST3006CC E406483-001 E406483-002 E406484-001 E75527-006	Screw Push Button Push Button Push Button Knob	8 1 1 1 3	Cartridge Loudness CD Direct Tone	
	16 17 18 19 20	E406485-001 E307426-001 E102419-001 QSR2B16-E03 QSR2B19-E04	Knob LED. Holder Front Bracket Rotary Switch Rotary Switch	2 1 1 1 1	Source Source Select Rec Select	
	21 22 23 24	E206801-002 E26753-002 E61660-004 E306233-002 SBSG3008M	Metal Cover Metal Cover Special Screw Protect Sheet Screw	1 1 4 1 2		A,G E,EF,U,BS E,EF,U,BS
	25 26 27 28 29	E303216-006 E305811-002 E74266-002 E72018-001 E305812-002	Fastener Side Bracket Special Screw Wire Clamp Center Bracket	2 1 1 2 1	Right	
	30 31 32 33 34	E68587-008 E26273-003 E306816-001 EXO255005N60S02 E70115-002	Bracket Bottom Cover Fastener Spacer Caution Label	1 1 1 1 1		
	35 36 37 38 39	E307427-001 SBST3008Z E305810-001 E406309-001 E406626-001	Foot Ass'y Screw Side Bracket Spacer Protect Sheet	4 4 1 4 1	Left	
A	40 41 42 43	E305803-005 E61661-004 E73968-002 ETP1150-39EB ETP1150-39EBBS	Trans Bracket Special Screw Spacer Power Transformer Power Transformer	1 8 4 1		A,E,EF,G BS
A	44 45 46 47	ETP1150-39FA EXO060050N40S02 QMF51A2-2R5S QMF51A2-5R0S QMF51A2-2R5S	Power Transformer Spacer Fuse Fuse Fuse	1 1 1 1 1	for Transformer F001 F002	U U U A,E,EF,G
Δ	48 49 50 51	QMF51E2-2R5SBS E307503-001 E48729-008 EXO020010R10S10 E26334-013	Fuse Protect Cover Plastic Rivet Spacer Rear Panel	1 1 2 2 1		BS A,E,EF,G,BS A,E,EF,G,BS U

♠: Safety Parts

(No. 20234) 2-3

AX-A441TN AX-A442BK

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
		E26334-014 E303260-229 E73273-003 E73273-003 E70078-003	Rear Panel Rating Label Special Screw Special Screw GND. Terminal	1 1 9 2 1		Except U E , EF , G Except U U
♠	54 55 56	SDSG3008CC QHS3876-162 QHS3876-162BS QMP2560-244 QMP3900-200	Screw Cord Stopper Cord Stopper Power Cord Power Cord	2 1 1 1 1		U Except BS BS A E,EF,G
<u>^</u>	57 58 59	QMP7520-200 QMP9017-008BS E67000-005 GBSG3008CC WNS3000CC	Power Cord Power Cord Caution Label Screw Washer	1 1 1 22 4		U BS
	- -	E61029-005 E70028-001 E74792-086	Number Label Approval Label FTZ Label	1 1		U,A,BS E G

⚠: Safety Parts

The Marks Designated Areas

·····the U.K. -- Australia -----Other Countries -Germany --Continental Europe No mark indicates all areas.

■ AX-A442BK Parts List

Please refer to AX-A441TN parts list except following parts.

Ŵ	Item	Part Number	Part Name	Q'ty	Description	Areas
	1 1-1 1-2 1-3 1-4	EFP-AXA442BKE E207078-002 E102418-002 E307424-003 E307424-004	Front Panel Ass'y Front Panel Front Base Side Fitting Side Fitting	1 1 1 1	Left Right	
	2 6 9 10 12	E307425-002 E406481-002 E406482-004 E406482-003 E406483-003	Volume Knob Power Button Push Button Push Button Push Button	1 1	SPK-2 SPK-1 Cartridge	
	13 14 15 16 21	E406483-004 E406484-002 E75527-004 E406485-002 E206801-001	Push Button Push Button Knob Knob Metal Cover	1 1 3 2 1	Loudness CD Direct Tone Source	A,G
	35 51	E26753-001 E307427-002 E26334-015 E26334-016 E303260-230	Metal Cover Foot Ass'y Rear Panel Rear Panel Rating Label	1 4 1 1		E , EF , U , BS U Except U E , EF , G
	_	E74792-087	FTZ Label	1		G

⚠: Safety Parts

The Marks Designated Areas

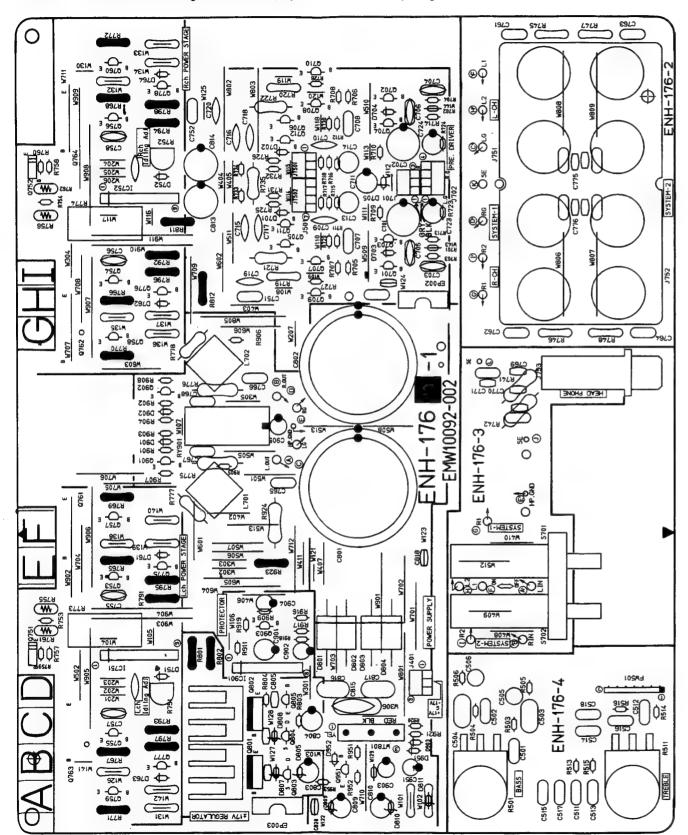
A------Australia BS-----the U.K. U------Other Countries ---Germany ---Continental Europe No mark indicates all areas.

(No. 20234) 2-4

Printed Circuit Board Ass'y and Parts List

■ ENH-176 Power Amplifier PC Board Ass'y

Note: ENH-176 ☐ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENH-176 E	Other Countries
ENH-176 F	Australia , Continental Europe
ENH-176 G	Germany
ENH-176 H	the U.K.

Transistors

Δ	ITEM	PART	NUMBER	D	E	s	¢	R	I	P	Т	I	0	N	AREA
-	Q701	25522	40(A/B)	SIL	TC	ON	_	-	ros	шт	9.4	_			-
	Q701		40(A/B)	SIL					ros						}
	Q702		40(A/B)	SIL					TOS						
	Q704		40(A/B)	SIL					ros						
	9705		O(GR,BL)						ros						Ì
	Q706		O(GR,BL)	SIL					TOS				••-	•••••	ļ
}	Q707		O(GR/BL)	SIL					ros	_	-				
1	Q708		O(GR/BL)	SIL					ros						
	Q709		3LN(R,S)	SIL					ROH		-				
	Q710		SLN(R,S)	SIL					ROH						
	Q711		40(GR,BL)						ros		RA				
	Q712		40 (GR, BL)						ros						
	Q751		6(Q,R)	SIL					1AT				A		1
ĺ	Q752		6(Q,R)	SIL					1AT			_			
i	Q753	2SC22	40 (GR, BL)	SIL	IC	ON		1	ros	HI	BA				į
	Q754	25022	40 (GR, BL)	SIL	IC	ON		1	ros	HI	BA		*****		
	Q755	25A97	O(GR/BL)	SIL	IC	ON		1	ros	HI	BA				-
	Q756	2SA97	O(GR.BL)	SIL	IC	ON		1	ros	HI	BA				
	Q757	25022	35(0/Y)	SIL	IC	ON		1	ros	HI	BA				
	Q758	2SC22	35(O,Y)	SIL	IC	ON		1	FOS	ΗI	BA				
1	Q759	2SA96	5(0/Y)	SIL	IC	ON		1	ros	HI	BA				
1	Q760	2SA96	5(0,Y)	SIL	IC	ON		1	ros	HI	ВА				1
	Q761	25021	55LB(R,0)	SIL	IC	ON		1	ros	HI	ВΑ				
	Q762	2SD21	55L8(R,0)	SIL	IC	QN		1	ros	HI	ВА				1
	Q763 ;	2SB14	2913(8,0)	SIL	IC	QN		1	ros	HI	ВА				
, 1	Q764	2SB142	29LB(R,0)	SIL	IC	ON		٦	ros	ΗI	ВА				ĺ
	Q775	2SC174	40S(R,S)	SIL				Ę	HOS	M					
	Q776	2SC17	40S(R/S)	SIL	IC	ON		F	ROH	M					
	Q777	2SA93	3S(R,S)	SIL	IC	ΟN		F	108	M					}
	Q778	2SA93	3S(R,S)	SIL	IC	ON		F	ROH	M					
	Q801	250200	61(E,F)	SIL				F	HOS	M					
	Q802	2SB118	87(E,F)	SIL	IC	ON			OH						
	Q803	25K24	6(GR)	F.E	.T			T	08	ΗI	BA				
	9804	2\$K246	6(GR)	F.E	.T			1	OS	ΗI	ВА				
	Q805	2SA93	SS(R/S)	SIL	IC	OΝ		8	ROH	M					
	Q901		89(S/E)	SIL	IC	ΟN		8	ЮH	М					
	Q902	250238	89(S,E)	SIL	IC	ON		R	КОЯ	M					
	Q903	2SA970	O(GR,BL)	SIL	IC	QN		Ī	OS	ΗI	8A				
	Q951	DTC114	4YS	SIL	IC	ΟN		8	CH	M					
					_		4	Δ :	S:	A:F	E	ΠÝ	1	PIAI	RiT:S:

I.C.s

Δ	1	1	` 1	2 1	М	P	Α	R		T	_	N	Į	J A	11	3	E	R	I)	E	5	С	R		i	Р	1		1	0		N		AREA
	Ī	C?	75	1 2 1	1	٧	C	5 5	0	2	2	()	(,	Y					I.	C					R		1M 1M								
		_	_					_		_	_	_		_	_									Δ	٠:	S	:A:	F:!	ď	۲ij	/ :	Ī	P.A.I	ξ.	T:S

-	710	ode2																
	Δ	ITEM	PART	ИU	MBER	D	Ē	s	С	R	1	Р	т	ı	0	N	AREA	
1		D701	188133	5		SIL	ΙC	ON		F	ROF	ξM;						٦
-1		D702	188133			SIL					ROF							-
- [D705	MTZ18J			ZEN	-				201							
- 1		D751	1\$\$291			SIL					201							- 1
ı		D752	155291			SIL					201							ı
ŀ																		[
- {		D761	188291			SIL					305							ł
Į		D762	188291	_		SIL	ΙC	$^{\circ}$		F	50F	179						1
- {		D763	188291			SIL	IC	ЯC		F	303	114						Į
1	i	0764	188291			SIL	IC	ON		F	105	129						Ì
1		D801	30DF2S	FC		SIL	IC	ON			413	ON	IN	TΕ	R			- 1
į.	****	0802	30DF25	FC		SIL	IC	ÒN		1	III	IQ.N	IN	TE	R			
Ì		D803	30DF2S	FC		SIL	IC	ON		3	(IH	ON	IN	TΕ	R			1
Ī		D804	30DF2S	FC		SIL	ΙC	٥N		1	NIH.	ON	IN	TΕ	R			-
-]		D805	RD18JS	В3		ZEN	ER			N	ŧΕC	:						-
l	. 1	D807	RD13JS	В3		ZEN	ER				(EC							

Diodes

Δ	ITEM	PART	NUM	BER	D	E	s	С	R	I	P	Τ	I	0	N	AREA
	D808	RD6.2J	\$83		ZEN	ER			- 1	NE	:					
	0809	MTZ20J	C		ZEN	ER			1	109	ŀМ					}
	D810	MTZ27J	C		ZEN	ER			F	ROF	M					
1	D811	MTZ3.3	JB		ZEN	ER			-	ROX	M					ł
	D901	188133	;		SIL	IC	ON		1	ROF	M					İ
	D902	188133	3		SIL	IC	ON		1	ROI	M					
	D903	188133	;		SIL	IC	ON		F	ROF	M					
	0951	188133	;		SIL	ΙC	ON		1	ROF	M					i
	D952	188133	;		SIL	IC	ON		- 1	RC	M					

	D808	RD6.2JSB3	ZENER	NEC	1 1
	0809	MTZ20JC	ZENER	ROHM	}
	D810	MTZ27JC	ZENER	ROHM	1 1
	D811	MTZ3.3JB	ZENER	ROHM	1 1
	D901	188133	SILICON	ROHM	1 1
	D902	188133	SILICON	ROHM	
	D903	188133	SILICON	ROHM	
	0951	188133	SILICON	ROHM	1 1
	0952	188133	SILICON	ROHM	
			Δ	SAFETY PA	RTS
at	pacitor	•			
41	3001201	3			
	ITEM	PART NUMBER	DESCR	IPTION	AREA
,	A 1 1 192	TAKI NUMBER	D D O C K	1 1 1 1 0 1	AKEA
	C501	QFN81HK-153	0.015MF 50V	MYLAR	
	C502	QFN81HK-153	0.015MF 50V	MYLAR	1 1
	C503	QFN81HK-823	0.082MF 50V	MYLAR	1 [
	C504	QFN81HK-823	0.082MF 50V	MYLAR	1
	C505	QEN51HM-475	4.7MF 50V	NON POLE	1 1
	C506	QEN51HM-475	4.7MF 50V	NON POLE	
	C511	QFN81HK-332	3300PF 50V	MYLAR	1
	C512	QFN81HK-332	3300PF 50V	MYLAR	1 1
	C513	QFN81HK-183	0.018MF 50V	MYLAR	1
	C514	QFN81HK-183	0.018MF 50V	MYLAR	
	C515	QCS21HJ-221	220PF 50V	CERAMIC	
	C516	QCS21HJ-221	220PF 50V	CERAMIC	
	C517	QFN81HK-122	1200PF 50V	MYLAR	
	C518	QFN81HK-122	1200PF 50V	MYLAR	
	C701	EEZ5006-226	22MF	ELECTRO	1
•••	C702		22MF	ELECTRO	
	C703		100PF 50V		1
	C704		100PF 50V		
	C705		100PF 50V		
	C706		100PF 50V		
				 	

	0024		0 2 0 2 0		1111 = 1111	
	C515	QCS21HJ-221	220PF	50V	CERAMIC	1
			220PF			1
	C516			507	CERAMIC	
	C517	QFN81HK-122	1200PF	50V	MYLAR	i
	C518	QFN81HK-122	1200PF	50V	MYLAR	
				201		
	C701		22MF		ELECTRO	
	C702	EEZ5006-226	22MF		ELECTRO	1
	C703		100PF	50V	POLY	
						1
	C704	QFP81HJ-101	100PF	50V	POLY	1
	C705	QFP81HJ-101	100PF	50V	POLY	1
	C706	QFP81HJ-101	100PF	50V	POLY	l
		41101113-101				. j
	C707	QFN81HK-332	3300PF	50V	MYLAR	1
	C708	QFN81HK-332	3300PF	50V	MYLAR	1
	C709	EFF001J-100			FILM MICA	CA
	C710	EFF001J-100			FILM MICA	CA
	C711	EEZ2505-107	100MF		ELECTRO	Į.
**	C713	QEN51HM-475	4.7MF	50V	NON POLE	
		WERSINH-473	4 a 7 M F			i
	C714	QEN51HM-475	4.7MF	50V	NON POLE	1
	C715	QCS21HJ-330	33PF	50 V	CERAMIC	ł
	C716		3325	50V	CERAMIC	1
				201		!
	C717		33PF	50V	CERAMIC	l
	C718	QCS21HJ-330	339F	50V	CERAMIC	1
	C719	QCS21HJ-220	22PF	50V	CERAMIC	
						ł
	C720		22PF	50V	CERAMIC	
	C723	EEZ2505-107	100MF		ELECTRO	1
	C724		100MF		ELECTRO	
••		05404111 407	100MF 0.01MF	F 6 W		
	C751			50V	TEFILM	
	C752		0.01MF	50V	T.FILM	1
	C755	EFF001J-680			FILM MICA	CA
	C756	EFF001J-680			FILM MICA	CA
	C757	EFF001J-680			FILM MICA	CA
	C758	EFF001J-680			FILM MICA	CA
1	C761		0.01MF	50V	T_FILM	G
1	C762		0.01MF	50V	T.FILM	Ğ
	C763	QFV81HJ-103	0.01MF	50V	T.FILM	G
	C764	@FV81HJ-103	0.01MF	50V	T.FILM	G
**	C765	@FV81HJ-104	0.1%7	50V	T.FILM	
		05404111 404	0 4115		7 571 14	[
	C766	@FV81HJ-104	0.1MF	50V	T.FILM	
i	C767	QFV81HJ-104	0.1MF	50V	T.FILM	
1	C768	QFV81HJ-104	0.1MF	50V	T.FILM	[
1	C769		22025	50V	CERAMIC	G
		GCD01UK-551	220PF 220PF	304		ļ <u>ģ</u>
1	C770			50V	CERAMIC	G
-	C771	QCHB1EZ-223	0.022MF	25V	CERAMIC	G
1	C775	QCHB1EZ-223	0.022MF	25V	CERAMIC	G
1						Ğ
-	C776		0.022MF	25V	CERAMIC	و ا
	C801	EEW5606-109	10000MF		ELECTRO	
			******		ELECTRO	1
Ì	C802		10000MF			
	C803	QETB1EM-476	47MF	25V	ELECTRO	
1	C804		47MF	25V	ELECTRO	
	C805		100PF	50V	CERAMIC	1
						1
	C809	QETB1EM-476	47MF	257	ELECTRO	
	C810	QETB1EM-476	47MF	25V	ELECTRO	1
	C813		220MF	63V	ELECTRO	
	C814		220MF	637	ELECTRO	
	C815		0.1MF	250V	M.MYLAR	
	C816	QFN82AK-103	0.01MF	100V	MYLAR	E
	C816		0.01MF	100V	MYLAR	E
i						G
	C816		0.1MF	1007	MYLAR	
	C816	QFN82AK-103	0.01MF	100%	MYLAR	н
	C817		0.01HF	100V	MYLAR	5
	C817			100V	MYLAR	
			0.01MF			F
	C817	QFN32AK-104	0.1MF	100V	MYLAR	
1	C817	QFN82AK-103	0.01MF	100V	MYLAR	H
	C820		0.022MF	25V	CERAMIC	G
į						
	C901	QETB1AM-227	220MF	10V	ELECTRO	

220MF 22MF 4.7MF 22MF 22MF

C816 QFN32AK-104 C816 QFN82AK-103 C817 QFN82AK-103 C817 QFN82AK-103 C817 QFN82AK-104 C817 QFN82AK-104 C820 QCHB1EZ-223 C901 QETB1AM-227 C902 QETB1CM-226 C903 QETB1HM-475 C904 QETB1HM-26 C905 QETB1HM-206 C905 QETB1HM-105

ELECTRO ELECTRO ELECTRO

Resistors

۵	ITEM	PART	NUMBER	⊃ €	s c	R	I	p	1	ं	R	AREA
	8501	gvosa	76-E158	100K					RIAE			
	R503		'J-203	20K		1/69			2004			
	R504	QRD167		20K		1/6			RBON RBON			
	R505 R506	QR0167		3.6K 3.6K		1761 1761			1001 1001			
	R511		7C-E15B	100K		1.23	·		RIAE			
			73-472	4.7K		1/6	d		RBON			
	R514	QRD167		4.7K		1/61		CA	RBON			
	R515	02016	71-821	820	- 1	1/51	è		8801			
	R516	980167		820		1/61	ļ		8801			
	R703		7J-104	100K		1/6			RBOA			
			71-104	LOOK					RECN			
	none	AMBA 27	7J-202 7J-202	2 K		1/61			RBON RBON			
	R707	030167		şĸ					280			
	770S	92016	-202	SK		76		CA	75CA			
	2709	QRD167	7J-912	9.1K	:	1/6	į	CA	2801	i		
	8710		7J-912	9.1K		1/61			RBON			
	R711	080163	7J-101	100	- 1	1/6	Ŷ	ÇA	RBCA			
	R712	080167	71-191	100		1/6	ļ	L /6 /	RBON FILM			
٨	14.72	C. C	4F-3300 4F-3300			1/41			FILM			
۵				16K		1/41			FILM			
À A	R715	ABBATT	F-1602	16K		1/41			FILM			
a A	8717	Q8V144	F-8202	82K								3
A.	R717 R718	QRV14	F-8202	828		1/4	1	М.	FILM	}		
Δ	2719	QRD14(J-1218	120		1/41	į	UN:	FLÇA	88		
Å.	R720		J-1218	120					F.CA		ON	
A	8721		2J-103AM	LOK		1.66			4.FI			
Ą.,	6722		2J-103AM	108		19 1741	· · · · ·		W.FI			
۵	8723 8724		F-5600 F-5600						FIL» FIL»			
۵	2725		7J~391	390		1/6			REON			
	2726	OPDIA	7.1-301	590		1/61			880A			
	8727	QRD167	71-152	1.5K		176			RBON			
	2728	QRD16	73-152	1.5K		1/61	į	CA	RBON	1		
		QRD167		33K					RBON			
	R730	08016		33K		1.761			8801			
		QRD167	73-391	390					RBON			
	R732 R733	WEDIO:	7J-391 7J-152	390 1.5K		1/6		CS	RBON			
		QR016		1.5K					RBCA			
2	8735		2J-392A	3.9K		l W			M.FI			
ش	8741		2J-331A	330	2	2 1/4		0.3	M.FI	LM		
\$.	R742	QRG022	2J-331A	330	,,,,,,, °	V		0.1	M.F.	L.M		
å	R745	0.82007	77-100	10		13 40	ķ	20	2125	. 4		G
å	8746		77-100	10					SIBL			G
ش ش	2747 2748	QRZ007		10		1741 1741			SIBL SIBL			G
i ala	R751	000000	21-501	isna			5 SV	YAR	RIAE	3LE		
	2752	QVPE60	31-301	500		001	W.	VA	RIAE	1 E		
	R753	080163	7J-101	100			Ź	CA	8504			
	R754		7J-101	100					ROBR			
	R755		2WFL351S	350		149	į.	TH	ERMI			
	R756	ERI-DI	PWFL3515	350		1/4)	ý 		ERMI	2.13	315	
	8757		71-471	470		1/6			RBON			
		QR0167		470		1/6			8308			
		QR016		390		1/6			1088 1088			
		@R016		390		1761 1761			RBOA ERMI		30	
	R761 R762		ZWHLZOZS ZWHLZOZS	2K		1/4 1/4	i		ERM1			
Ä,	R765		77-122	i.zk		1741		FU	SIBL	.Ε		
å	R766	QRZOG"	77-122	1.2K	1	1741	sí	FU	SIBL	Ξ.		
A	R767	GRZGO'	77-151	150		1/4			SIBL			
۵.	R768		77-151	250		1/4			SIBL			ļ
٩	8769		77-100	10		1/4			SIBL			
ů.	8770		77-100 77-100	10		1/41 1/41			SIBU			
a a	R771		77-100 77-100	10		1/4	ď	# (1	STRE	%		
ω Δ	R773		2K-R22	0.22		3 W		CE	MENT			
Ž	2772		ek-Rez	0.22		3 %		CE	MENT			
ä.	R775	@RG02	23-1008	10		214			M.F.			
Á	3776		23-100A	10		2 %			M.F)		4, 60	
Ž.	R777		5J-100	10		1/2	8 	UN 1184	F.C/	1250 1250	JR. The	
Å.,	2778		5J-100 77-621	10		1/2	š	P 11	SISL	4 E E	214	
A.	R791 R792		77-621	950		1/4			SIBL			
ia. Š	8793		77-621	620		1/4			SIBL			
À	8794	QRZOD	77-621	620		1/4	e!		SIBL			1
Á	R795	QRZOC	77-151	150		1/4	ž		SIB		,,,,,,	
٨	R796	@8200	77-151			1/4	r ³		SIB			
A.	R797		77-151	150		1/4			SIBL			
<u> </u>	R798		77-151	150		1/4			SIBL			
<u> </u>	R801		77-100 77-100	10		174 174			SIBL			
Ä	R802		//-100 7J-163	16K		1/6			RSO			
			7J-203	SOK		1/6			RBO			
						1/4			SIB			
â	R804 R811	QRZOD	77-330	53		4.1 14.						
A A	8811	QRZ00		33 2.7K		1/4 1/6	¥.	20	SIB! RBC!	. E		

Resistors

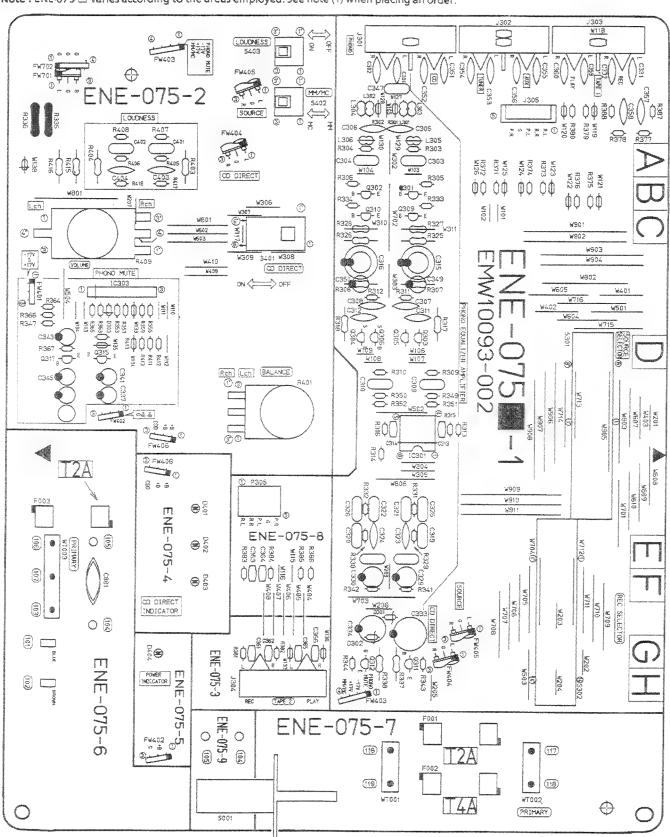
Δ	ITEM	PART NUMBE	RDES	CRI	PTION	AREA
	R902	980167J-272	2.7K	276W	CARBON	
	R903	QRD167J-153	15K	1/68	CARBON	
	2904	QRD167J-153	1.5K	1/6W	CARBON	
	R905	QRD167J-104	100K	1/6W	CARBON	
	R906	GRD167J-823	82K	1/6W	CARBON	
	R907	QRD1673-223	22K	1/69	CARBON	
and of some	R908	QRD167J-223	22K	1/6₩	CARBON	
	8909	9R0167J-103	10K	1/6W	CARSON	
	8911	QRD167J-473	47K	1/6%	CARSON	
	8916	QRD167J-103	10K	1/6W	CARBON	
	R917	QRD1673-103	10K	1/69	CARBON	
Average	R918	QRD167J-224	220K	1/6W	CARBON	
	R919	QR0167J-332	3.3K	1/6%	CARBON	
	8920	QR0167J-273	27K	1/6W	CARBON	
1	8921	GR0167J-103	20K	1/69	CARSON	
٤	8923	QR0140J-820S	82	1749	UNF.CARBON	
A :	R924	QRG022J-122A	1.2K	24	O.M.FILM	
	R951	QRD167J-224	220K	1/6W	CARBON	
	R952	QRD167J-333	33K	1/68	CARBON	
1	R953	QRD167J-101	100	1/6W	CARBON	

A GISAFIEMY PARTIS

Ot	hers		
å	BAR	PART NUMBER DESCR	1 P T 1 O N ARSA
		EMW10092-002 PRINTED 80A	
		E300209-040 RADIAT.PLAT	9
		E305804-001 HOLDER	
		E305805-001 HQLDER	
		E33754-001 TIE BAND	
		E70945-H25 HEAT SINK	
		E73525-001 SPECIAL SCR	EW
		E73525-003 SCREW	
		SBSG3008CC SCREW	
		GBSG3008CC SCREW	
		GBSG3008CC SCREW	
		ENTO11-078 TERMINAL WI	
	1	EWT011-112 TERMINAL WI E74266-002 SPECIAL SCR	
			12 H G
		68863008CC	<u> </u>
		EMV7122-103 CONNECTOR(3 EMV7122-105 CONNECTOR(3	
		EMY7122-004 COMMECTOR(4 EMBOOTP-8010 PPEAKER TER	
		EMBOOTP-8010 SPEAKER TER	
		986840-021 HEADPHONE J	
		EQLOOGI-180 INDUCTOR	A 1/2
	L702		
		QST4241-EO7 PUSH SWITCH	700817
	5702	GST4241-E07 PUSH SWITCH	
	EP002	E70859-001 EARTH PLATE	
		E70859-001 EARTH PLATE	
		EWR378-13LST FLAT WIRE(T	
		EMV7122-103 CONNECTOR()	
		EMV7122-004 CONNECTORIA	
		ESK7D24-2120 RELAY	
			RMINAL(3PIN)
	ì		PSAPETY PARTS

■ ENE-075 Source Selector PC Board Ass'y

Note: ENE-075 \square varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENE-075 [E]	Other Countries
ENE-075 [E]	Australia , Continental Europe
ENE-075 G	Germany
ENE-075 田BS	the U.K.

Transistors

Δ	LTEM	PART NUM	BERD	E S	C R I	ΡT	Ţ	o n	AREA
	Q301 Q302 Q303	2SD655(E/F 2SD655(E/F 2SK170(BL)) SI	ICON ICON	H J	TACH TACH SHIB	Ā		
	Q304 Q305 Q306	25K170(8L) 25K170(8L) 25K170(8L)	F.	i.T	T C	SHIB SHIB SHIB	A A		
-	0309 0310 0311	2\$0655(E,F 2\$0655(E,F 2\$02878(A,) SI	LICON LICON LICON	H)	TACH TACH SHIB	I A		
Security Security	Q312 Q315 Q317	2SC2878(AA DTA114YS DTA1448S	SI	MODIL MODIL MODIL	RC	SHIB HM HM	Α		

A : SAFETY PARTS

I.C.s

IC301 VC4580DD I.C. DAINICHI IC303 UPC1237HA I.C. NEC		

Diodes

	LTEM	PART NUMBER	DESC	RIPTION	AREA
Notation was the manager (D) to d (s) (D) to A reference	0301 0302 0303 0401 0403 0404	RD15JSB3 RD15JSB3 1SS133 SLV-S1YC3F SLV-S1YC3F SLV-S1YC3F SLY-S1YC3F SLR-34DC3F	ZENER ZENER SILICON L.E.D. L.E.D. L.E.D.	NEC NEC ROHM ROHM ROHM ROHM ROHM	

AUSARETY PARTS

Capacitors

À	ITEM	PART N	UMBER	DES	C R I	PTION	ARBA
2	0001	QCZ9050~	472A	4700PF	- Andread Control of the Control of	CERAMIC	F
3	0001	0079050-		4700PF		CERAMIC	G
2	0001	0029050~	472A	4700PF		CERAMIC	888
	0301	QCS21HJ-	101	100PF	50V	CERAMIC	G
	0302	QCS21HJ-	101	100PF	50V	CERAMIC	G
	0303	QFV81HJ-	103	0.01MF	504	T.FILM	Ξ
	0303	QFV818J~	103	0.01MF	50V	T.FILM	F
	C303	QFN81HJ-	102	1000FF	50V	MYLAR	G
	C303	@FV81HJ-	103	0.01MF	50V	T.FILM	HBS
	0304	QFV81HJ-	103	O.Dimp	SOV	TIFILM	2
	C304	QFV81HJ-	103	0.01MF	50V	T.FILM	
	C304	QFN81HJ-	102	1000PF	50V	MYLAR	S
	0304	QFVS1HJ-	103	0.01MF	507	T.FILM	888
	0307	QCS21HJ-	101	100PF	50V	CERAMIC	
	0308	@CS218J-	101	100PF	50V	CERAMIC	
	0309	GFRSIHJ-	222	2200PF	504	MYLAR	
	0310	QFN31HJ-	555	2200PF	50V	MYLAR	
	0311	acszihu-	680	68PF	SOV	CERAMIC	Ξ
	C311	GCS21HJ-	680	68PF	50V	CERAMIC	F
	0311	QCS21HJ-	680	68PF	SOV	CERAMIC	H85
	C312	QCS21HJ-		68PF	50V	CERAMIC	E
	C312	QCSZIHJ-	680	68PF	SOV	CERAMIC	۶
	C312	QCSZ1HJ-	680	68PF	50V	CERAMIC	HBS
	0315	EEZ0602-		220MF		ELECTRO	
	C316	EEZ0602-	227	220MF		ELECTRO	
	C319	QFN81HJ-		4700PF	50¥	MYLAR	
	0320	QFN81HJ-	472	4700PF	SOV	MYLAR	
	0321	QFN81HJ-		0.015MF	50 Y	MYLAR	
	6322	QFN81HJ-		0.015MF	50V	MYLAR	
	0323	QCS21HJ-		330PF	50V	CERAMIC	
	C324	QCS21HJ-		330PF	50V	CERAMIC	
	0325	QFN81HJ-		2700PF	50V	MYLAR	
	0326	@PN81HJ-		2700PF	50 V	MYLAR	
	0329	EE25009-		10MF		ELECTRO	
	0330	EE25009-		10MF		ELECTRO	

Capacitors

۵	ITEM	PART	NUMBE	RDES	CR	PTION	ARE/
	C331	QCS21H		100PF	50 V	CERAMIC	G
	0332	QCS21H	J-101	100PF	50 V	CERAMIC	G
	0333	EEZ250		SSOME		ELECTRO	
	0334	EEZZSO	5-107	100MF		ELECTRO	į.
	6337	QEK510	M-226	22MF	16V	ELECTRO	
	C341	QEK51H	M-475	4.7MF	50 V	ELECTRO	
	0343	QEK51E	M-4756	4.7MF	25 V	ELECTRO	
	0345	QEK51H	M-106	10MF	SOV	ELECTRO	ar-out
	0347	QFV81H	J-103	0.01MF	SOV	T.FILM	
	0351	QC\$21H	J-101	100PF	50V	CERAMIC	G
	0352	QCS21H	J-101	100PF	50V	CERAMIC	G
	0353	QCS21H	3-101	100PF	50V	CERAMIC	G
	0354	QCS21H	J-101	100PF	50 V	CERAMIC	G
	C355	GCS21H	J-101	100PF	50Y	CERAMIC	G
	0356	QCSZ1H	J-101	hoops	SOV	CERAMIC	G
	0359	QCS21H	J-101	10075	50 V	CERAMIC	G
	0360	QCS21H	J-101	100PF	50 V	CERAMIC	G
	0361	QCB81H	K-101	100PF	SOV	CERAMIC	6
	0362	QCS81H	K-101	100PF	SOV	CERAMIC	G
	0365	QCBS1H	K-101	100PF	SOV	CERAMIC	G.
	0366	QCBB1H	K-101	10005	50 V	CERAMIC	G
	0401	GFV81H	1-563	0.056MF	50V	T.FILM	
	0402	QFV81H	1-563	0.056MP	SOV	T.FILM	4
	0403	QCS21H	J-471	470PF	50 V	CERAMIC	
	C404	QCS218	3-471	470PF	50V	CERAMIC	

A.	ITEM	PART I	NUMBER	DES	CRI	PTION	AREA
				1K	1/69	CARBON	G
- 1	R301	QRD167J		1K	1/69	CARBON	3
-	R302	QRD167J		100	1/6W	CARBON	
- 6	R303	QRD167J			1/68	CARBON	
	R304	QRD167J		100			
	R305	QRD167.	-103	10K	1/69	CARBON	
	R306	QRD167J		10K	1/68	CARBON	
	8307	ERD003J		10	1/4W	CARBON	
	R308	ERDOOSJ		10	1/4W	CARBON	2
j	R309	QRD167J		68	1/6W	CARBON	
	R310	QRD167J	-680	68	1/69	CARBON	
-	R311	0RD167J		47K	1/6W	CARBON	
0.00	R312	@RD167J	-473	47K	1/68	CARBON	
	R313	QRD167J	-472	4.7K	1/6%	CARBON	-
	R314	QRD167J	-472	4.7X	1/6W	CARBON	
	R315	QRD167J	-472	4.7K	1/69	CARBON	
***	8316	QRD167J	-472	4.7K	1/69	CARBON	
	R317	ERDOOS		4.7%	1/4W	CARBON	
	2318	3800033		4.78	1/4W	CARBON	1
	8325	ERD003J		18	1/4W	CARBON	
	R326	ERDODSJ		18	1/4W	CARBON	1
	8327	ERDOOSJ		220	1/4W	CARBON	1
	8328	ERDOOSJ		220	1/4W	CARBON	
	8329	28D167J		15X	1/69	CARBON	
-	R330	QRD1673		15K	1/6W	CARBON	
	R331	9RV1446		191K	1/44	M.FILM	
	8335	QRV144F		191K	1/ZW	MIFILM	1
- 1				ick	1/6W	CARBON	
	R333	QRD167J		10K	1/6W	CARBON	
-	R334	QRD167J					
	8335	QRZ0077		100	1/48	FUSIBLE	
١.,١	3336	QRZ0077		180	1/44	FUSIBLE	ļ.,
- 1	8337	ERDO03J		470	1/4W	CARBON	
9	8338	EF 7031		470	1/4W	CARBON	
	2341	QRD167J		100K	1/6W	CARBON	
9	R342	9801673		100K	1/68	CARBON	
	2343	@RD167J	-103	10K	1/69	CARBON	
-	8344	9801673	-103	10X	1/6W	CARSON	
	8347	QRD167J	-674	470K	1/69	CARSON	
0	R349	QRD167J	-125	1.2M	1/6%	CARBON	
-	8350	9RD167J	-125	1.2M	1/6%	CARBON	
0.000	8351	GRD1673		1.2M	1/6₩	CARBON	
	8352	QRD167.		1.2M	1/69	CARBON	
0.000	8353	QRD167J		4.7K	1/6%	CARBON	
200	R355	QRD167J		3.9%	1/6W	CARBON	
0000	R357	QRD167J		1.5K	1/6W	CARBON	-
000 000	R359	QRD167J		47K	1/6W	CARSON	
	8363	QRD167J		100K	1/69	CARBON	**********
0.000	2364	9801675		100K	1/69	CARBON	
0.00000	8365	QRD167J		100K	1/6₩	CARBON	1
	R366	QRD167J		470K	1/6%	CARBON	
				47%	1/6W	CARBON	1
	R367	QRD167J		470K	1/6₩	CARBON	
	R371	9RD167J		470K	1/69	CARBON	3
-	8372	0801673				CARBON	1
-	2373	QRD1672		470K	2/69		
2000	8374	QRD167J		470K	1/69	CARBON	3
	R375	9RD167J	-474	470K	1/6W	CARBON	
-	2376	QRD167J	-474	470K	1/69	CARBON	1
-	8377	QR01673		1M	1/69	CARBON	\$
-	R378	QRD167J		1M	1/6%	CARBON	4 12 00
	R378			470K	1/6%	CARBON	1111
-		QRD167J			1/6W		
	8380	QRD167J	-4/4	470K		CARBON	<u></u>

AX-A441TN AX-A442BK

Resistors

۵	ITEM	PART	NUMBE.	RDE	SCRI	PTIO	N	AREA
	R381	QRD167	J-331	330	1/6W	CARBON	Maran Annoque	
	8382	QRD167	J-331	330	1/6%	CARBON		
	8383	QRD167	J-105	1M	1/6W	CARBON		
	R384	QRD167	J-105	2.M	1/69	CARBON		
	R385	QRD167	J-474	470K	1/69	CARBON		
	R386	QRD167	1-474	470K	1/6W	CARBON		
	8387	QRD167	J-331	330	1/6₩	CARBON		
	8388	QRD167	J-331	330	1/69	CARBON		
	R401	QVDB87	M-EF5B	250K		VARIABLE		
	8403	ERD003	J-103	10K	1/4W	CARBON		
****	R404	ERDOC3	J-103	10K	1/4W	CARBON		,
	R405	QRD167	J-623	62K	1/69	CARBON		
	R406	QRD167	J-623	62K	1/6W	CARBON		
	R407	QRD167	3-474	470K	1/68	CARBON		
	R408	QRD167	3-474	470K	1/69	CARBON		
	8409	QVDB90	B-E158	100K		VARIABLE		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	R411	QRD167	J-331	330	1/6W	CARBON		
-	R412	QRD167	J-331	330	1/6%	CARBON		
	R413	QRD167	J-681	680	1/6%	CARBON		
	R414	QRD167	J-511	510	1/6%	CARBON		
	8415	ERDOOS	J-221	220	1/4W	CARBON		
	8416	ER0003	J-221	220	1/4W	CARBON		
	R417	980167	1-333	33K	1/6W	CARBON		
	8418	980167	J-333	33K	1/6W	CARBON		

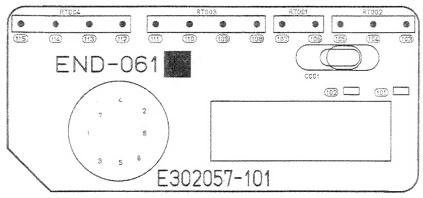
Others

ش	No.	Ţ	E	М	Þ	A	R	Ţ	7	¥ 1	J.	d I	3 1	EI	2	D	100	92	>	C	8			P	 ***	()	N		ARE	A
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					8	6	55	08		0	o a	3				A	3												- 1	G	
					2	M	3 7	33	1	i	00	2			9	rus	E	€	_ I	p									-	88	38
					35	M	3.7	2,2	1	-m	Öć	32	H			i i i	E	3	LI	5									-	24.0	8
																	N				0.8	21	4						3	Hā	3.5

Others

٨	ITEM	PART	NUMBER	a p	\mathfrak{E}	S	C	Ŕ	Ţ	70	7	3000	0	N	Α	REA
-		E65508		TAB										***************************************	1	KBS
	F001	E67132		FUS	3	LA	BE	•							a de la companya de l	Ξ
	F002	E67132	-TSRO	FUS	3	1.4	BE.									E
	F003	867132	-T2RS	FUS											*	F
		E67132		FUS											i	G
	F003	E67132	-T2R5	FUS												HBS
			V-406A	40	PI	Ν.,	A	ũΚ								
			V-404A	40												
		EMNOOT	V-404A	40	PI	Ν.	A	CK								
	J304	EMNOOT	V-404A	4P	PI	¥ .	A	:K								
	J305	EMV512	5-005	PLU	G /	455	3 7 4	5 P	: 3)```			,,,,,	,,,,,,,		******
	L301	EQL400	4-330	END	UC.	TOP	7								-	6
	L302	EQL400	4-330	IND	uc:	TOR	È									G
	L303	EQL400	4-330	IND	UC	TOR	₹								OF STREET	G
	L304	EQL400	4-330	IND	uc.	TOF	3									G
.,,.	P305	EMV712	5-005R	CON	NE	CTC	R	5 P	IN)	****					******
Š		QSP110		20%	ER	S	(I)	CH								Ξ
i.	8001	QSP110	6-004	POW	ER	Sw	iI	CH								F
5	S001	QSP110	6-004	POW	ER	5%	II.	CH								G
3	5001	QSP401	1-50388	PUS	9 9	SWI	110	14								HBS
			6-E01						X'S	01	RC	8	SE	EC	7)	ye
	5302	QSS1R4	6-E01	SLI												
	8401	QSTL10	01-E04	PUS												
			1-E03										. /			
	FW401		-13LST	FLA							~ /				į	
	F9402	EWR338		FLA												
		EWR348		FLA											į	
		EWR230		FLA												
		EWR230		FLA											1	
			-13SST													
		EWR230		FLA									****			
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■ END-061 B Voltage Selector PC Board Ass'y (Only for Other Countries)



Capacitors

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Others

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A FISIA FIEITY PARTS

Accessories List

Part Number	Part Name	Q'ty	Description	Areas
E30580-1712A E30580-1712ABS E30580-1717A BT-20117 BT20060	Instruction Book Instruction Book Instruction Book Warranty Card Warranty Card	gine gra gra gra gra		U,A,E,EF,G BS E,EF G BS
BT-20122 BT-20122-1 BT20066A E43486-340A QZL1008-001	Warranty Card Sticker EEC Agency Safety Sheet FTZ Information Sheet	and the safe only only		A A BS BS G
E04056 E35497-019 E41202-2 E41202-2B	Siemens Plug Caution Sheet Envelope Envelope	grave grave grave grave	220V	U U Except BS BS

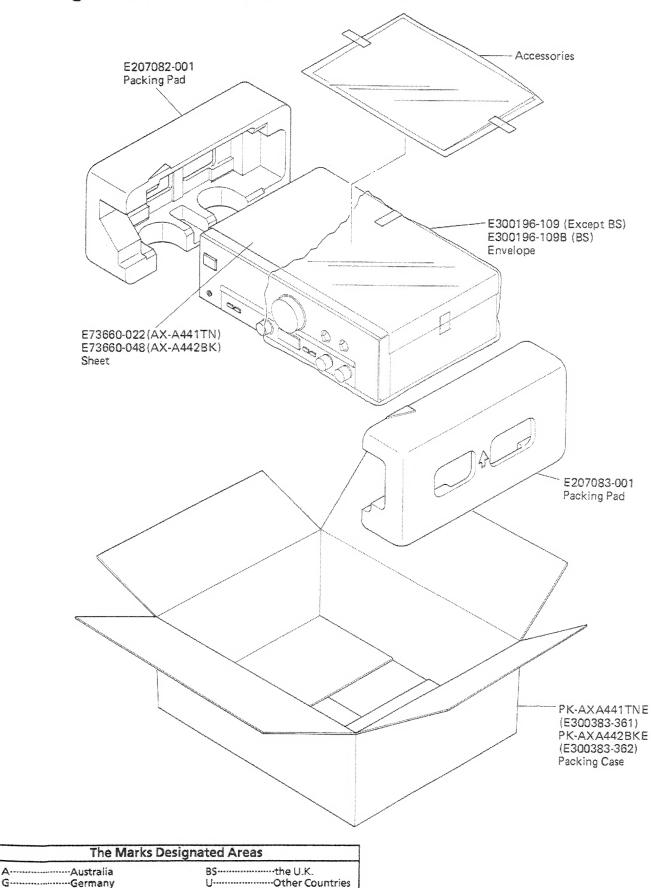
⚠: Safety Parts

The	Marks	Designated	Areas
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AAustralia	
GGermany	
E , EFContinental	Europe

BSthe U.K.
UOther Countries
No mark indicates all areas.

Packing Materials and Part Numbers



No mark indicates all areas.

E , EF-----Continental Europe